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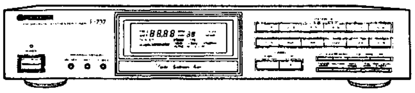
2183

PIONEER®
The future of sound and vision.

Service Manual



ORDER NO.
ARP 1603

FM/AM DIGITAL SYNTHESIZER TUNER

F-737 HEZ, HE, HB
F-737-S HEZ

F-737 AND F-737-S HAVE FOUR VERSIONS:

Type	Applicable model		Power requirement	Export destination
	F-737	F-737-S		
HEZ	○	○	AC220V, 240V*	West Germany
HE	○	–	AC220V, 240V*	European continent
HB	○	–	AC220V, 240V*	United Kingdom
HIOX1B	○	–	AC220V, 240V*	Italy

*Change the connection of the primary lead wire.

- **This service manual is applicable to the F-737/HEZ type.**
- **As to the F-737/HE, HB and F-737-S/HEZ types, please refer to page 26.**
- **As to the other types please refer to the additional service manual.**
- **F-737-S/HEZ type is silver version of F-737/HEZ type.**
- **Ce manuel pour le service comprend les explications en français de réglage.**
- **Este manual de servicio trata del método ajuste escrito en español.**

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FA JUNE 1988 Printed in Japan

1. SPECIFICATIONS

FM Tuner Section

Frequency range	87.5 MHz to 108 MHz
Usable Sensitivity	
NARROW	Mono; 10.8 dBf, IHF (0.95 μV/75Ω)
50dB Quieting Sensitivity	
NARROW	Mono; 15.3 dBf, IHF (1.6 μV/75Ω)
	Stereo; 35.9 dBf, IHF (17 μV/75Ω)
Sensitivity (DIN)	
NARROW	Mono; 0.75 μV/75Ω
	Stereo; 20 μV/75Ω
Signal-to-Noise Ratio	Mono; 94 dB (at 80 dBf)
	Stereo; 87 dB (at 80 dBf)
Signal-to-Noise Ratio (DIN)	Mono; 76 dB
	Stereo; 73 dB
Distortion (at 80 dBf)	
WIDE	Mono; 0.015% (100 Hz)
	0.0095% (1 kHz)
	0.02% (10 kHz)
	Stereo; 0.02% (100 Hz)
	0.02% (1 kHz)
	0.07% (10 kHz)
NARROW	Mono; 0.09% (1 kHz)
	Stereo; 0.5% (1 kHz)
Capture Ratio	
WIDE	0.8 dB
Alternate Channel Selectivity	
NARROW	85 dB (400 kHz)
Stereo Separation	65 dB (1 kHz)
	55 dB (20 Hz to 10 kHz)
Frequency Response	$^{+0.2}_{-0.8}$ dB (20 Hz to 15 kHz)
Image Response Ratio	70 dB
IF Response Ratio	100 dB
AM Suppression Ratio	70 dB
Spurious Response Ratio	80 dB
Subcarrier Product Ratio	60 dB
Muting Threshold	25.2 dBf (5 μV/75Ω)
Antenna Input	75Ω unbalanced

AM Tuner Section

Frequency range	531 kHz to 1602 kHz (Step 9 kHz)
Sensitivity (IHF, Loop antenna)	150 μV/m
Selectivity	40 dB
Signal-to-Noise Ratio	50 dB
Image Response Ratio	40 dB
IF Response Ratio	60 dB
Antenna	Loop Antenna

Audio Section

Output (Level/Impedance)	
FM (100% MOD) FIXED	650 mV/0.9 kΩ
AM (30% MOD) FIXED	150 mV/0.9 kΩ

Miscellaneous

Power Requirements	a.c.240V~ ,50/60 Hz
Power Consumption	20W
Dimensions	420 (W) × 86 (H) × 316 (D) mm
Weight (without package)	4.4 kg

Furnished Parts

FM T-type Antenna	1
AM Loop Antenna	1
Connecting Cord with Pin Plugs	1
Operating Instructions	1

NOTE:
Specifications and design subject to possible modification without notice due to improvements.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays and other chemicals on or near this unit, since these will corrode the surfaces.

NOTES:

Parts without part number cannot be supplied.

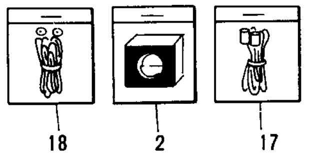
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

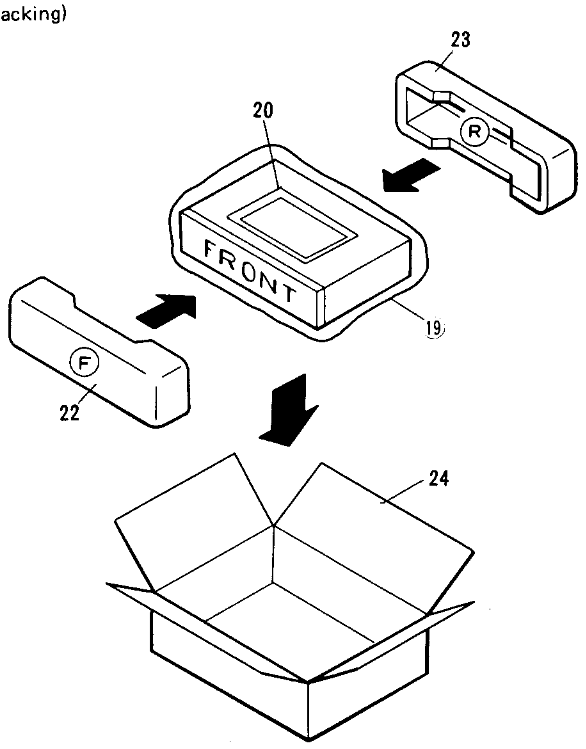
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Shipment is made with the caution card affixed to the glass door.

Mark	No.	Part No.	Description
⚠	1	ACE-501	CFPA (0.01/AC250V)
	2	ATB-086	LOOP ANTENNA (For packing)
⚠	3	ATT1070	POWER TRANSFORMER
⚠	4	ASG-541	SWITCH (POWER:S401)
	5	AMR1350	INSULATOR ASS'Y
	6	AMR1353	INSULATOR ASS'Y
	7	AMB1220	PANEL BASE ASS'Y
	8	AAD1168	KNOB (POWER)
	9	AAD1190	KNOB
	10	AAH1034	ALUMINUM SASH
	11	AAK1299	FILTER
	12	AAK1455	PANEL
	13	AAM-030	NAME PLATE (METAL)
	14	AMR1160	INDICATING LENS
	15	ANB1178	FRONT PANEL
	16	ANE1083	BONNET CASE
	17	ADE-081	PLUG CORD (For packing)
	18	ADH1002	FM ANTENNA (For packing)
	19		BAG (For packing)
	20	ARC1087	OPERATING INSTRUCTIONS (For packing)
	21	ABH1033	SPRING
	22	AHA1081	FRONT PAD (For packing)
	23	AHA1082	REAR PAD (For packing)
	24	AHD1386	PACKING CASE (For packing)
	25	ABA-298	SCREW (HE and HB types)
	26	ABA1006	SCREW
	27	ABA1009	SCREW
	28	ABA1011	SCREW
	29	ABA1047	SCREW (HEZ type only)
	30	ABE-053	WASHER
⚠	31	ADG1010	AC POWER CORD
	32	BBZ26P080FMC	SCREW
	33	FBT40P080FZK	SCREW (F-737/HEZ type)
	34	VMZ30P060FCU	SCREW
	35		-------------
	36	AWZ1806	TUNER ASSEMBLY
	37		FL ASSEMBLY
	38		SW ASSEMBLY
	39		CHASSIS
	40		REAR PANEL
	41		TRANSFORMER FRAME
	42		FRONT PANEL HOLDER A
	43		FRONT PANEL HOLDER B
	44		GND LEAD
	45		SUPPORTOR
	46		PCB HOLDER
	47		NAME PLATE
	48	FBT40P080FCR	SCREW (F-737-S/HEZ type only)
	49		--------
	50		BINDER
	51		BINDER
	52		SHEET
	53		GND LEADER
	54	AWZ1576	DET. VCO ASSEMBLY
	55	AWZ1580	FE VCO ASSEMBLY

• Packing




23
R
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FRONT
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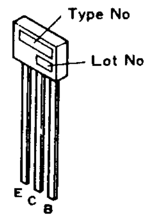
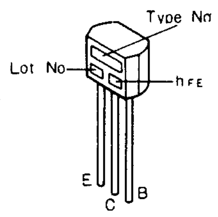
F
22
24

External Appearance of Transistors and ICs

RN1203
RN2201


Type No
Lot No
E
C
B

2SC2603
2SA1115


Type No
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hFE
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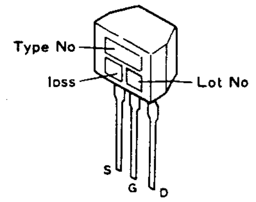
2SK241
2SK161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Idss
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S
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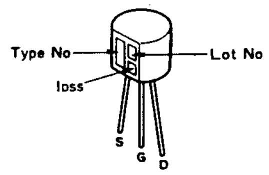
2SJ103
2SK246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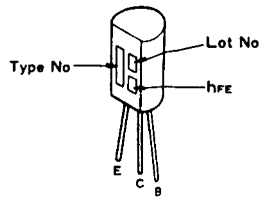
2SB560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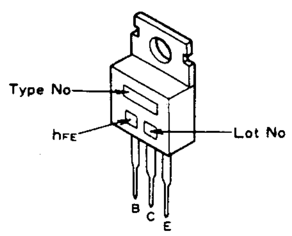
2SB834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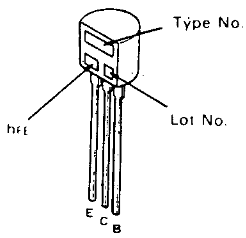
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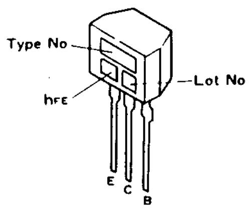
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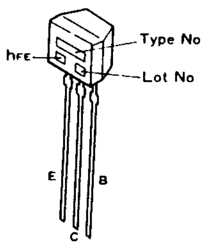
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Type No
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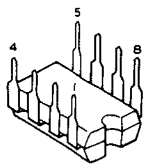
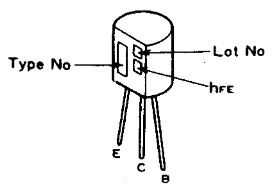
C

M5218P



2SC2878


Type No
Lot No
hFE
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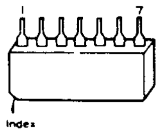
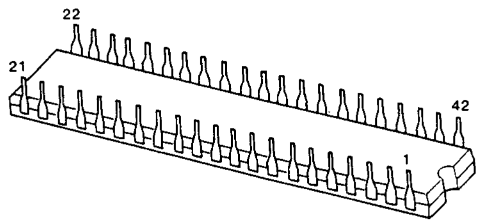
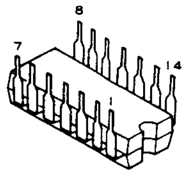
µPC1163H



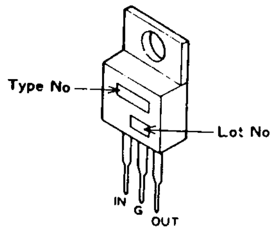
LC7570



NJM1496D



µPC78M05H
µPC78M15H
NJM78M13A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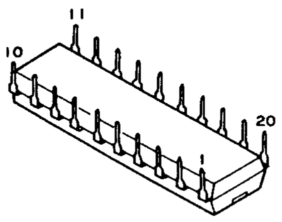
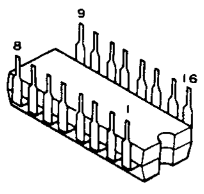
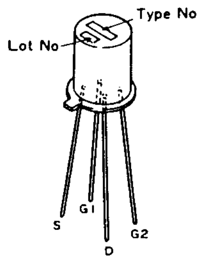
LA1247



PA5008



P001


Type No
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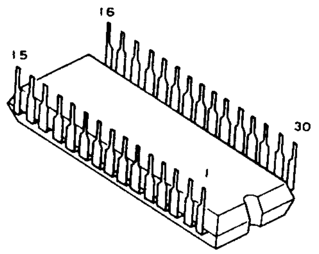
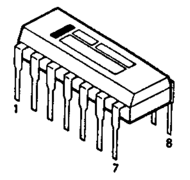
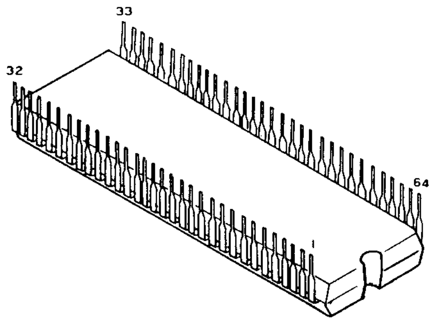
PA5007



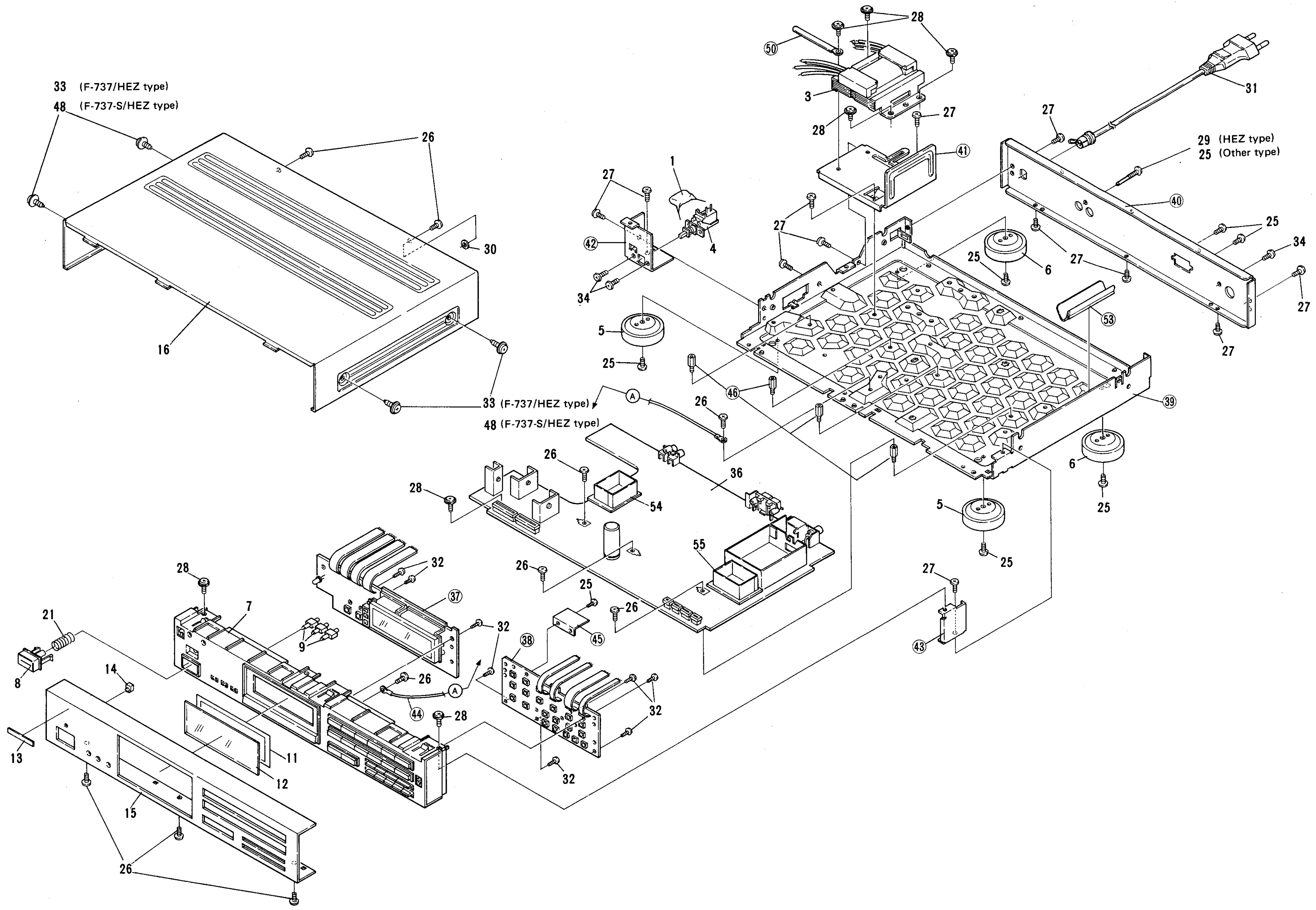
CX-7925B



PD5056



2. EXPLODED VIEWS, PACKING AND PARTS LIST


1
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A
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33 (F-737/HEZ type)
48 (F-737-S/HEZ type)
26
30
16
33 (F-737/HEZ type)
48 (F-737-S/HEZ type)
28
50
3
28
27
41
1
27
42
4
34
27
29 (HEZ type)
25 (Other type)
31
40
25
34
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43

NOTES:
Parts witho
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- Parts mark
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Shipment

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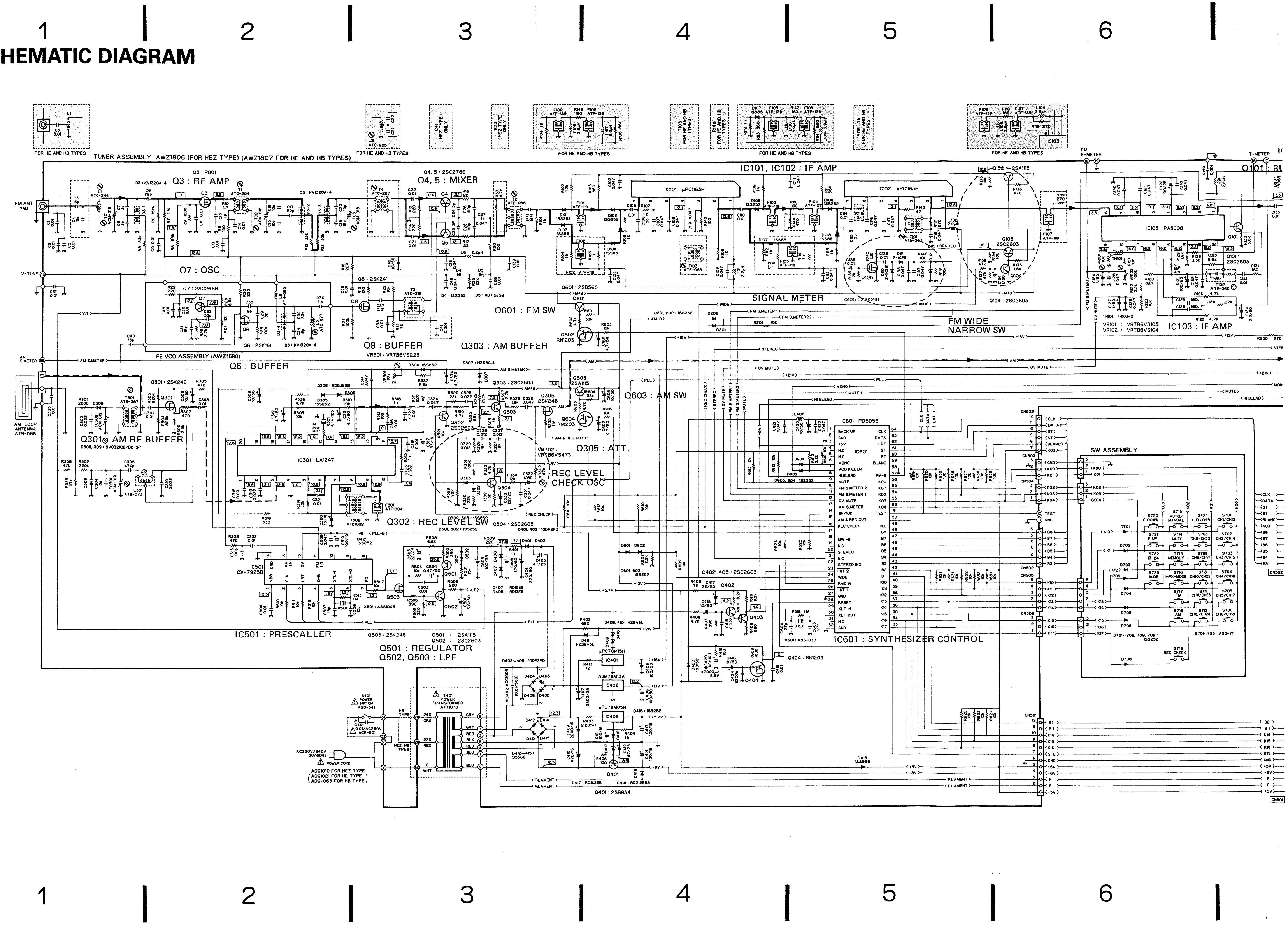
3. SCHEMATIC DIAGRAM


1
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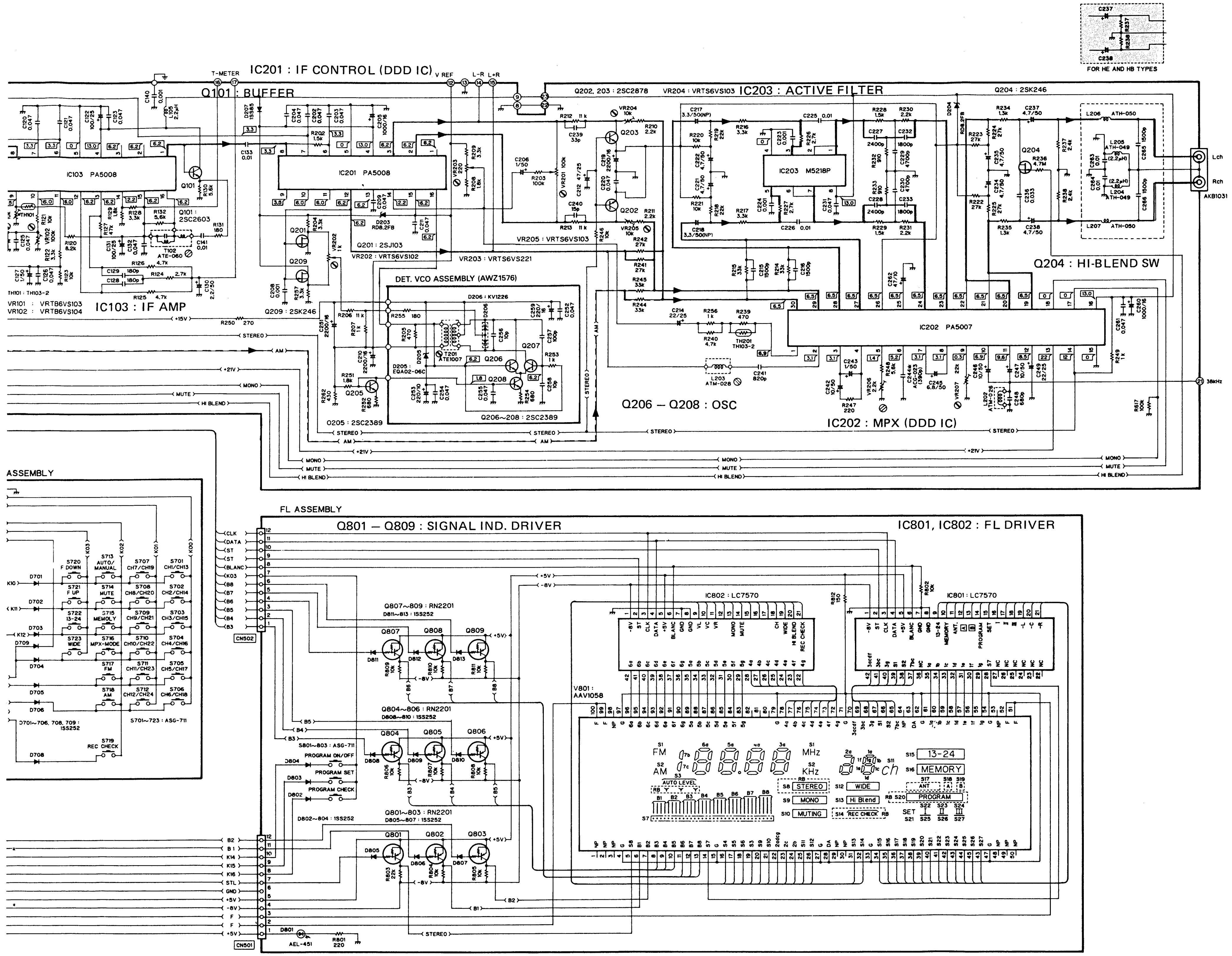
6
A
B
C
D
FOR HE AND HB TYPES
TUNER ASSEMBLY AWZ1806 (FOR HEZ TYPE) (AWZ1807 FOR HE AND HB TYPES)
FM ANT 75Ω
Q3 : RF AMP
Q4, 5 : MIXER
Q4, 5 : 2SC2786
Q7 : OSC
Q7 : 2SC2668
Q6 : 2SK161
FE VCO ASSEMBLY (AWZ1580)
Q6 : BUFFER
Q8 : BUFFER
Q8 : 2SK241
IC101, IC102 : IF AMP
IC101 μPC1163H
IC102 μPC1163H
IC103 PA5008
IC103 : IF AMP
SIGNAL METER
Q105 : 2SK241
Q104 : 2SC2603
FM WIDE
NARROW SW
Q601 : FM SW
Q601 : 2SB560
Q602 RN1203
Q303 : AM BUFFER
Q603 : AM SW
Q603 2SA1115
Q604 RN1203
Q305 : ATT.
Q305 2SK246
AM LOOP ANTENNA ATB-086
Q301 : 2SK246
Q301 : AM RF BUFFER
IC301 LA1247
Q302 : REC LEVEL SW
Q303 : 2SC2603
Q304 : 2SC2603
REC LEVEL CHECK OSC
VR302 : VRTB6VS473
VR301 : VRTB6VS223
IC501 CX-7925B
IC501 : PRESCALLER
Q501 : REGULATOR
Q502, Q503 : LPF
Q501 : 2SA1115
Q502 : 2SC2603
Q503 : 2SK246
IC601 : PD5056
IC601 : SYNTHESIZER CONTROL
Q402, 403 : 2SC2603
Q404 : RN1203
Q401 : 2SB834
IC401 μPC78M15H
IC402 NJM78M13A
IC403 μPC78M05H
T401 POWER TRANSFORMER ATT1070
S401 POWER SWITCH ASG-541
AC220V/240V 50/60Hz
ADG1010 FOR HEZ TYPE
ADG1021 FOR HE TYPE
ADG-063 FOR HB TYPE
POWER CORD
SW ASSEMBLY
S701–723 : ASG-711
D701–706, 708, 709 : 1SS252
FM S-METER
T-METER
Q101 : BL
VR101 : VRTB6VS103
VR102 : VRTB6VS104
TH101 : TH103-2
CN501
CN502
CN503
CN504
CN505
CN506
FLAMENT
PLL
STEREO
MUTE
HI BLEND
MONO
REC CHECK
AM S.METER
V.T
V-TUNE


IC201 : IF CONTROL (DDD IC)
Q101 : BUFFER
IC203 : ACTIVE FILTER
Q202, 203 : 2SC2878
VR204 : VRTS6VS103
Q204 : 2SK246
FOR HE AND HB TYPES
IC103 PA5008
IC201 PA5008
IC203 M5218P
IC202 PA5007
IC103 : IF AMP
Q101 : 2SC2603
Q201 : 2SJ103
Q209 : 2SK246
VR202 : VRTS6VS102
VR203 : VRTS6VS221
VR205 : VRTS6VS103
VR101 : VRTB6VS103
VR102 : VRTB6VS104
TH101 : TH103-2
DET. VCO ASSEMBLY (AWZ1576)
D206 : KV1226
Q206 – Q208 : OSC
Q206~208 : 2SC2389
Q205 : 2SC2389
Q204 : HI-BLEND SW
IC202 : MPX (DDD IC)
AKB1031
Lch
Rch
T-METER
V REF
L-R
L+R
38kHz
STEREO
AM
MONO
MUTE
HI BLEND
+21V
+15V
ASSEMBLY
FL ASSEMBLY
Q801 – Q809 : SIGNAL IND. DRIVER
IC801, IC802 : FL DRIVER
IC802 : LC7570
IC801 : LC7570
Q807~809 : RN2201
Q804~806 : RN2201
Q801~803 : RN2201
D811~813 : 1SS252
D808~810 : 1SS252
D805~807 : 1SS252
D802~804 : 1SS252
V801 : AAV1058
S801~803 : ASG-711
PROGRAM ON/OFF
PROGRAM SET
PROGRAM CHECK
S720 F DOWN
S713 AUTO/MANUAL
S707 CH7/CH19
S701 CH1/CH13
S721 F UP
S714 MUTE
S708 CH8/CH20
S702 CH2/CH14
S722 13-24
S715 MEMORY
S709 CH9/CH21
S703 CH3/CH15
S723 WIDE
S716 MPX-MODE
S710 CH10/CH22
S704 CH4/CH16
S717 FM
S711 CH11/CH23
S705 CH5/CH17
S718 AM
S712 CH12/CH24
S706 CH6/CH18
S719 REC CHECK
S701~723 : ASG-711
D701~706, 708, 709 : 1SS252
D801 AEL-451
R801 220
CN501
CN502
FM
AM
MHz
KHz
ch
13-24
MEMORY
AUTO LEVEL
STEREO
MONO
MUTING
WIDE
Hi Blend
REC CHECK
ANT
PROGRAM
SET

1. RESISTORS :
Indicated in Ω, 1/4W, and 1/8W, ±5% tolerance unless otherwise noted k ; kΩ, M ; MΩ, (F) ; ±1%, (G) ; ±2%, (K) ; ±10%, (M) ; ±20% tolerance.

2. CAPACITORS :
Indicated in capacity (μF) /voltage (V) unless otherwise noted p ; pF. Indication without voltage is 50V except electrolytic capacitor.

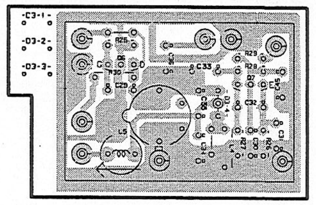
3. VOLTAGE, CURRENT :
▭ ; DC voltage (V) at no input signal.
Value in ( ) is DC voltage at rated power.
⇦mA ; DC current at no input signal.

4. OTHERS :
➡ ; Signal route.
⊘ ; Adjusting point.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
※ marked capacitors and resistors have parts numbers.

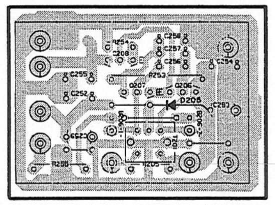
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

4. P.C. BOARDS CONNECTION DIAGRAM

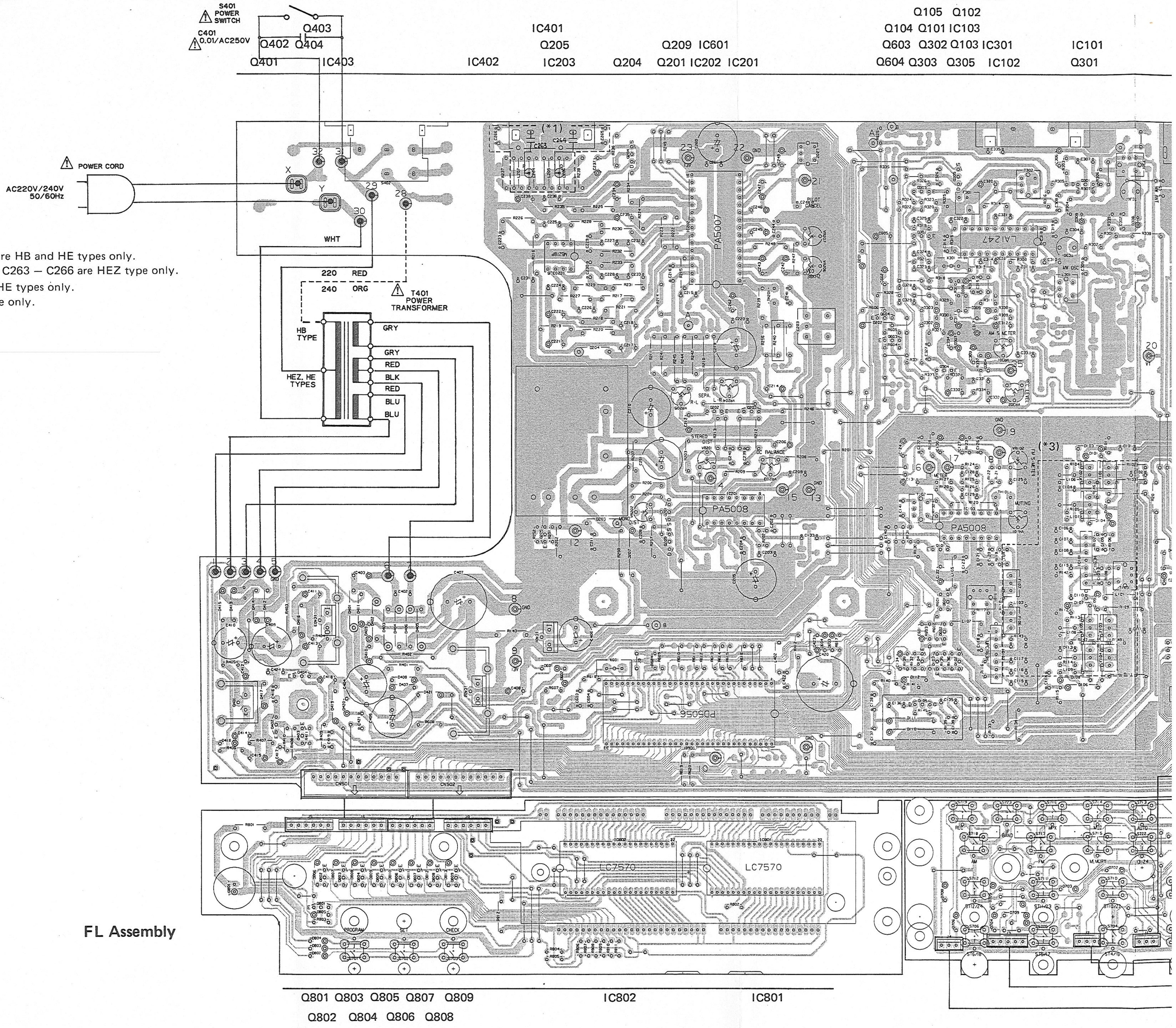
FE VCO Assembly (AWZ1580)



DET VCO Assembly (AWZ1576)



Tuner Assembly (AWZ1806 For HEZ type) (AWZ1807 For HB and HE types)

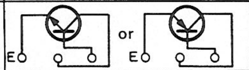
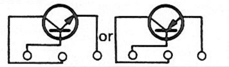
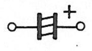
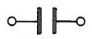

S401 POWER SWITCH
C401 0.01/AC250V
Q403
Q402 Q404
Q401 IC403
IC402
IC401
Q205
IC203
Q204
Q209 IC601
Q201 IC202 IC201
Q602 Q601
Q105 Q102
Q104 Q101 IC103
Q603 Q302 Q103 IC301
Q604 Q303 Q305 IC102
IC101
Q301
POWER CORD
AC220V/240V 50/60Hz
X
Y
32
31
29
28
30
WHT
220 RED
240 ORG
T401 POWER TRANSFORMER
HB TYPE
HEZ, HE TYPES
GRY
GRY
RED
BLK
RED
BLU
BLU
(*1)
(*3)
PA5007
PA5008
PA5008
LA1247
CN501
CN502
LC7570
LC7570
PROGRAM
SET
CHECK
REC
IF BAND
MPX
MUT
AUTO
AM
FM
MEMORY
FL Assembly
Q801 Q803 Q805 Q807 Q809
Q802 Q804 Q806 Q808
IC802
IC801

(*1) : Jamper wires are HB and HE types only.
L204 – L207, C263 – C266 are HEZ type only.

(*2) : L2 is HB and HE types only.
T4 is HEZ type only.

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

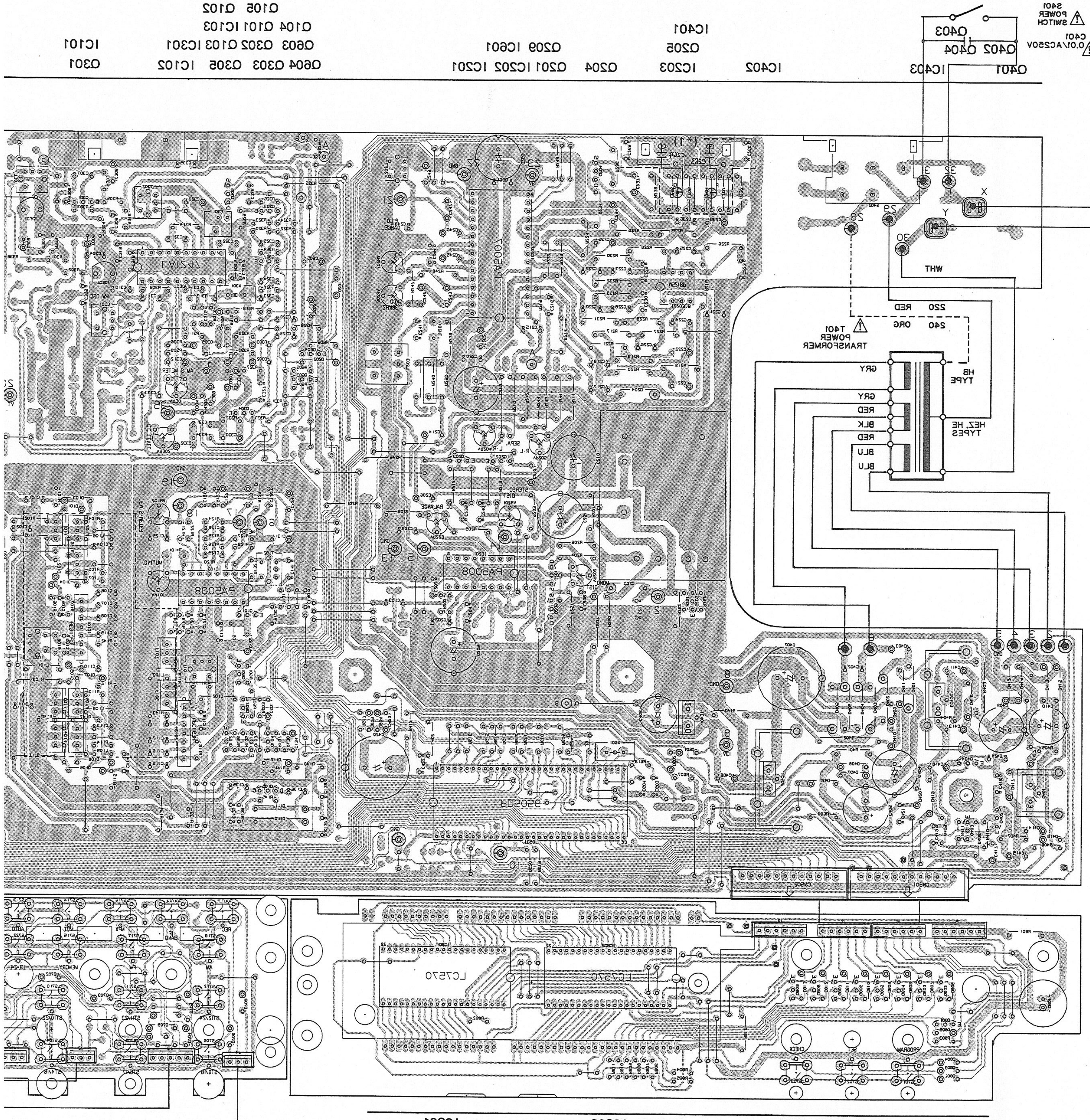
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
E Q504	 or	Transistor
Q215	 or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513		Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

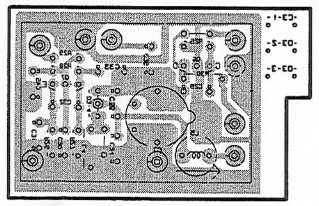
3. The capactor terminal marked with (double circles) shows negatine termianl.
4. The diode terminal marked with (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

Tuner Assembly (AWZ1806 For HEZ type (AWZ1807 For HB and HE types)

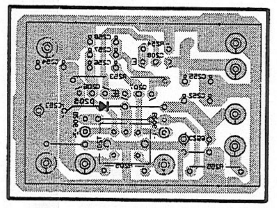

1
2
3
4
5
6
Q401
IC403
IC402
IC203
Q204
Q201 IC202 IC201
Q209 IC601
Q205
IC401
Q402 Q404
Q403
S401 POWER SWITCH
C401 0.01/AC250V
Q604 Q303 Q306 IC102
Q603 Q302 Q103 IC301
Q104 Q101 IC103
Q105 Q102
Q602 Q601
IC101
Q301
POWER CORD
AC220V/240V 50/60Hz
WHT
220 RED
240 ORG
T401 POWER TRANSFORMER
GRY
GRY
RED
BLK
RED
BLU
BLU
HB TYPE
HEZ, HE TYPES
PA5008
PA5008
LC7570
Q801 Q803 Q805 Q807 Q809
Q802 Q804 Q806 Q808
IC802
IC801
A
B
C
D

FL Assembly

FE VCO Assembly (AWZ1580)



DET VCO Assembly (AWZ1576)

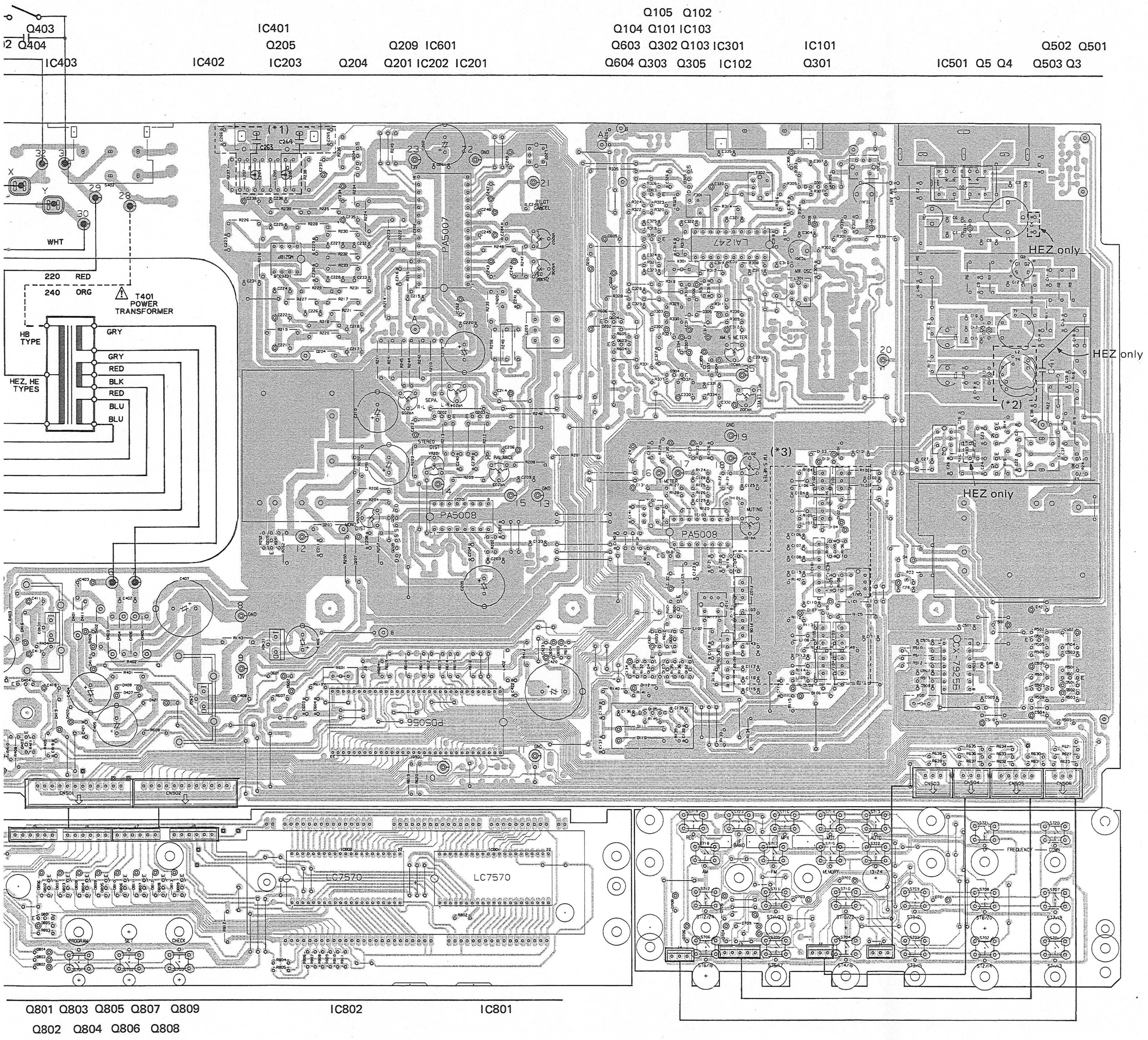


(*1) : Jamper wires are HB and HE types only.
L204 – L207, C263 – C266 are HEZ type only.

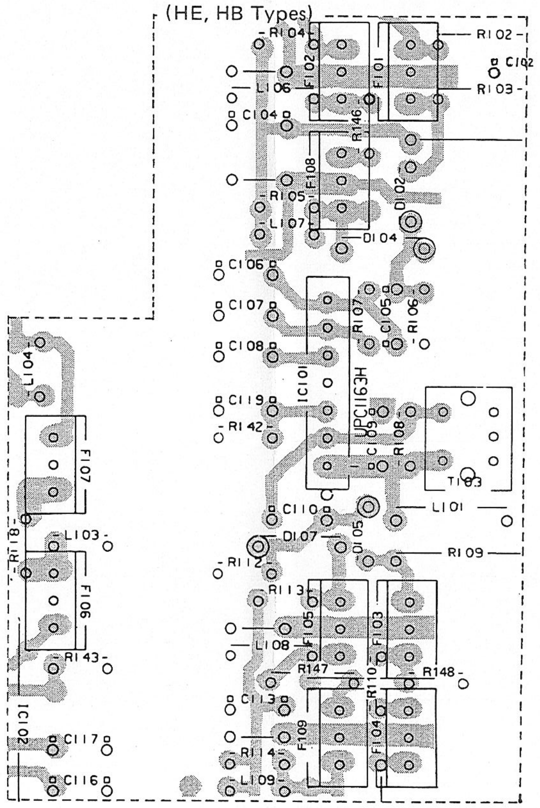
(*2) : L2 is HB and HE types only.
T4 is HEZ type only.

This P.C.B. connection diagram is viewed from the foil side.

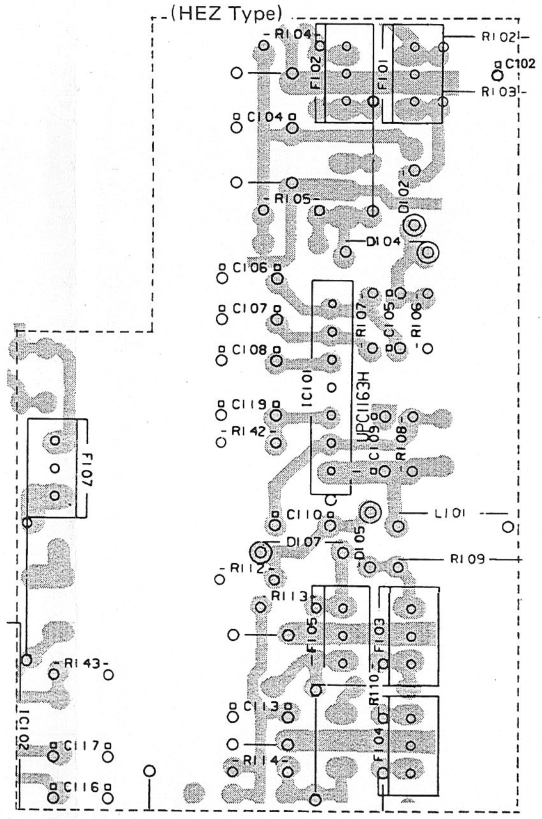
r HEZ type) (AWZ1807 For HB and HE types)


Q602 Q601
Q105 Q102
Q104 Q101 IC103
Q603 Q302 Q103 IC301
Q604 Q303 Q305 IC102
IC401
Q205
IC203
IC402
Q204
Q209 IC601
Q201 IC202 IC201
Q403
Q404
IC403
IC101
Q301
IC501 Q5 Q4
Q502 Q501
Q503 Q3
WHT
220 RED
240 ORG
T401 POWER TRANSFORMER
HB TYPE
HEZ, HE TYPES
GRY
GRY
RED
BLK
RED
BLU
BLU
(*1)
(*2)
(*3)
HEZ only
HEZ only
HEZ only
PA5007
PA5008
PA5008
LA1247
CX-7925B
PD5055
LC7570
LC7570
CN501
CN502
CN503
CN504
CN505
CN506
Q801 Q803 Q805 Q807 Q809
Q802 Q804 Q806 Q808
IC802
IC801

(*3)

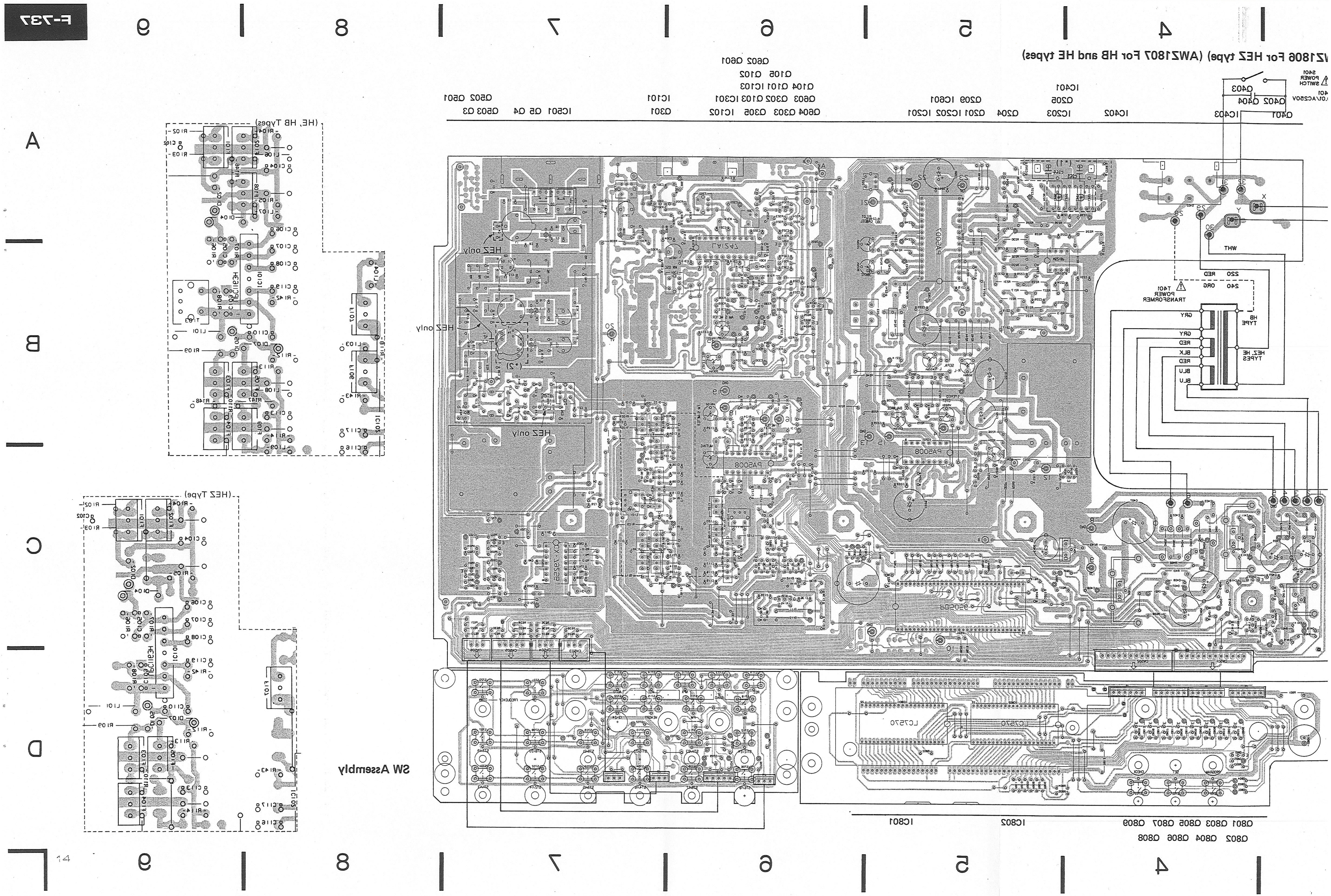

(HE, HB Types)
R104
R102
C102
R103
L106
C104
F102
F101
R146
R105
F108
L107
D102
D104
C106
C107
C108
R107
C105
R106
C119
R142
IC101
µPC1163H
R108
T103
L101
L104
F107
L103
R118
C110
D107
D105
R112
R109
F106
R113
L108
F105
F103
R147
R110
R148
R143
C117
C116
IC102
C113
R114
F109
F104
L109

(*3)


(HEZ Type)
R104
R102
C102
R103
F102
F101
C104
R105
D102
D104
C106
C107
C108
R107
C105
R106
C119
R142
IC101
µPC1163H
R108
F107
C110
L101
D107
D105
R109
R112
R113
F105
F103
R143
R110
IC102
C113
C117
C116
R114
F104

SW Assembly

WZ1806 For HEZ type (AWZ1807 For HB and HE types)


9
8
7
6
5
4
A
B
C
D
Q602 Q601
Q105 Q102
Q104 Q101 IC103
Q603 Q302 Q103 IC301
Q604 Q303 Q305 IC102
IC101
Q301
Q502 Q501
Q503 Q3
IC501 Q5 Q4
IC401
Q205
IC203
IC402
Q209 IC601
Q201 IC202 IC201
Q204
Q403
Q402 Q404
Q401
IC403
S401 POWER SWITCH
T401 POWER TRANSFORMER
HB TYPE
HEZ, HE TYPES
GRY
RED
BLK
BLU
WHT
ORG
220
240
HEZ only
(HE, HB Types)
(HEZ Type)
PA5008
LC7570
SW Assembly
IC801
IC802
Q801 Q803 Q805 Q807 Q809
Q802 Q804 Q806 Q808

5. ELECTRICAL PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω 56×10^1 561........................RD1/4PS[5][6][1]J
47kΩ 47×10^3 473........................RD1/4PS[4][7][3]J
0.5Ω 0R5...RN2H[0][R][5]K
1Ω 010...RS1P[0][1][0]K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ 562×10^1 5621......................RN1/4SR[5][6][2][1]F

Miscellaneous

Mark	Symbol & Description		Part No.
	Tuner assembly		ANZ1806
	FL assembly		
	SW assembly		
	DET VCO assembly		AWZ1576
	FE VCO assembly		AWZ1580
⚠	C401	(0.01/AC250V)	ACE-501
	L	Loop antenna assembly	ATB-086
⚠	T401	Power transformer	ATT1070
⚠	S401	Push switch (POWER)	ASG-541

Tuner Assembly (AWZ1806)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC501	CX-7925B
	IC301	LA1247
	IC203	M5218P
	IC402	NJM78M13A
	IC202	PA5007
	IC103, IC201	PA5008
	IC601	PD5056
	IC101, IC102	μPC1163H
	IC403	μPC78M05H
	IC401	μPC78M15H
	Q3	P001
	Q404, Q602, Q604	RN1203
	Q102, Q501, Q603	2SA1115
	Q601	2SB560
	Q401	2SB834
	Q205	2SC2389
	Q101, Q103, Q104, Q302-Q304, Q402, Q403, Q502	2SC2603
	Q4, Q5	2SC2786
	Q202, Q203	2SC2878
	Q201	2SJ103
	Q8, Q105	2SK241
	Q204, Q209, Q301, Q305, Q503	2SK246

Mark	Symbol & Description	Part No.
	D307	HZS5CLL
	D409-D411	HZS9A3L
	D408	RD13EB
	D407	RD15EB
	D418	RD2.2ESB
	D112	RD4.7EB
	D306	RD5.1ESB
	D5	RD7.5ESB
	D417	RD8.2EB
	D203, D204	RD8.2FB
	D308, D309	SVC321C2
	D412 – D415, D419	S5566
	D4, D101, D102, D105, D106, D201, D202, D302 – D305, D416, D420, D421, D501, D502, D601 – D604,	1SS252
	D103, D104, D107, D108, D267	1SS85
	D401 – D406	10DF2FD
	D110, D111	2-1K261
	TH101, 201	TH103-2

COILS, TRANSFORMERS AND FILTERS

Mark	Symbol & Description		Part No.
	L301	AM OSC coil	ATB-073
	L1	FM ANT. coil	ATC-244
	L204, L205, L402	Inductor	ATH-049
	L206, L207	Inductor	ATH-050
	L202	38kHz coil	ATM-026
	L203	19kHz coil	ATM-028
	L6, L101, L102, L105	Axial inductor	LAU2R2M
	T301	AM ANT. transformer	ATB-087
	T302	AM IF transformer	ATB1002
	T1	FM RF transformer	ATC-204
	T3	FM balloon transformer	ATC-218
	T4	FM RF transformer	ATC-257
	T102	FM DET transformer	ATE-060
	T101	FM matching transformer	ATE-063
	T2	FM IF transformer	ATE-066

Mark	Symbol & Description	Part No.
	F104 FM ceramic filter	ATF-107
	F102, F105, F107 FM ceramic filter	ATF-118
	F101, F103 FM Ceramic filter	ATF-119
	F301 FM ceramic filter	ATF1004

CAPACITORS

Mark	Symbol & Description	Part No.
	C244 Ceramic capacitor (390p)	ACG-023
	C402 (0.01)	ACG1005
	C420 Electrolytic (47000μ/5.5V)	ACH1011
	TC1-TC3 Ceramic trimmer	ACM-018
	TC301, TC302 Ceramic trimmer	ACM-019
	C12	CCDCH010C50
	C23, C24	CCDCH030C50
	C25, C26	CCDRH101J50
	C6, C7	CCDSH030C50
	C15, C16	CCDSH100D50
	C19, C20	CCDSH150J50
	C128, C129	CCDSL181J50
	C424	CCDSL221J50
	C304	CCDUJ100D50
	C3, C4, C40, C240, C508	CCMCH150J50
	C507	CCMCH180J50
	C8	CCMCH220J50
	C603, C604	CCMCH270J50
	C239	CCMCH330J50
	C106, C115	CCMSL050C50
	C313	CCMSL101J50
	C17	CCMSL820J50
	C502	CEASR47M50
	C124, C127, C134, C206, C309, C332	CEAS010M50
	C243	CEAS1RM50
	C42, C242, C246, C247, C306, C415, C418, C423, C605	CEAS100M50
	C510	CEAS101M10
	C411, C413, C414	CEAS101M16
	C504	CEAS101M35
	C130	CEAS2R2M50
	C214, C249, C330, C417, C505	CEAS220M25
	C409	CEAS222M16
	C317, C320	CEAS330M16
	C311, C312, C334, C601, C602	CEAS4R7M50
	C262	CEAS470M10
	C212, C412	CEAS470M25
	C410	CEAS471M16
	C245, C501	CEAS6R8M50
	C122, C131	CEXA101M25
	C408	CEXA101M50
	C210, C219, C251	CEXA222M16
	C407	CEXA332M35
	C237, C238	CEXA4R7M50
	C403	CEXA470M25
	C406	CEXA471M25
	C405	CEXA471M50
	C217, C218	CEYANP3R3M50
	C205, C260	CEYA102M16
	C404	CEYA221M50
	C221, C222, C234, C235	CEYA4R7M50
	C225, C226, C323, C503	CFTXA103J50
	C327-C329	CFTXA123J50
	C325	CFTXA223J50
	C236	CFTXA333J50
	C324, C326	CFTXA473J50
	C41	CKDYF102Z50
	C263, C264, C307, C308, C315, C321, C333, C135, C136, C335	CKDYF103Z50
	C302, C310, C319, C322, C416	CKDYF223Z50
	C125, C126, C137, C138, C314, C331, C421, C422	CKDYF473Z50
	C1, C2, C5, C9, C11, C13, C14, C21, C22, C28, C37-C39, C101, C105, C110, C114, C133, C139, C141, C506, C511, C419	CKDYX103M25
	C18, C27, C46, C102, C104, C107-C109, C111, C113, C116-C121, C123, C132, C202-C204, C209, C211, C220, C231, C261, C509	CKDYX473M25
	C140, C208, C316, C318	CKMYF102Z50
	C223, C224	CQMXA102J100
	C215, C216	CQMXA152J100
	C232, C233	CQMXA182J100
	C227, C228	CQMXA242J100
	C229, C230	CQMXA472J100
	C305	CQSA471K50
	C248	CQSA682J50
	C241	CQSA821J50
	C265, C266	CQSXA152J160

RESISTORS

Mark	Symbol & Description	Part No.
	VR207 Semi-fixed (22kΩ)	VRTS6VS223
	VR206 Semi-fixed (2.2kΩ)	VRTS6VS222
	VR203 Semi-fixed (220Ω)	VRTS6VS221
	VR201 Semi-fixed (100kΩ)	VRTS6VS104
	VR204, VR205 Semi-fixed (10 kΩ)	VRTS6VS103
	VR202 Semi-fixed (1kΩ)	VRTS6VS102
	VR302 Semi-fixed (47 kΩ)	VRTB6VS473
	VR301 Semi-fixed (22 kΩ)	VRTB6VS223
	VR102 Semi-fixed (100 kΩ)	VRTB6VS104
	VR101 Semi-fixed (10 kΩ)	VRTB6VS103
	R403	RS2LMF2R2J
	R203, R208, R209, R238, R240, R248, R256	RN1/4PQ□□□□F
	R413 Fusible resistor	RFA1/4PL120J
	R401	RD1/4PMFL102J
	R11, R20, R250, R262, R408	RD1/4PM□□□J
	R204, R206, R207, R210-R235, R237, R238, R241, R242, R257	RDR1/4PM□□□J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	2P pin jack	AKB1031
	2P push terminal	AKE-060
	PAL socket	AKX1013
	X601 Ceramic resonator	ASS-030
	X501 Crystal resonator	ASS1005
	X301 Ceramic resonator	ATF-125

FL Assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC801, IC802	LC7570
	Q801-Q809	RN2201
	D801 LED	AEL-451
	D802-D813	ISS252

SWITCH

Mark	Symbol & Description	Part No.
	S801-S803 Tact switch (PROGRAM, ON/OFF, PROGRAM SET, PROGRAM CHECK)	ASG-711

RESISTORS

Mark	Symbol & Description	Part No.
	R801, R812	RD1/4PM☐☐☐J
	R802-R811	RD1/8PM☐☐☐J

OTHER

Mark	Symbol & Description	Part No.
	V801 Fluorescent tube	AAV1058

SW Assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	D701 – D706, D708, D709	ISS252

SWITCHES

Mark	Symbol & Description	Part No.
	S701-S723 Tact switch (CH1 – CH24, AUTO/MANUAL, MUTE, MEMORY, MPX-MODE, FM, AM, F DOWN, F UP, 13 – 24, WIDE, REC CHECK)	ASG-711

DET. VCO Assembly (AWZ1576)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	Q206-Q208	2SC2389
	D205	EQA02-06C
	D206	KV1226-Y

TRANSFORMER

Mark	Symbol & Description	Part No.
	T201 FM OSC transformer	ATE1007

CAPACITORS

Mark	Symbol & Description	Part No.
	C252, C254, C255 Ceramic (0.047/25V)	ACG-037
	C256, C258	CCDCH100D50
	C257	CCDCH101J50
	C253	CEAS221M10
	C259	CEAS221M16

RESISTORS

Mark	Symbol & Description	Part No.
	R255	RDR1/4PM181J
	Other resistors	RD1/8PM☐☐☐J

FE VCO Assembly (AWZ1580)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	Q7	2SC2668
	Q6	2SK161
	D3	KV1320A-4

COILS

Mark	Symbol & Description	Part No.
	L3 FM OSC coil	ATC-077
	L5 Inductor	ATH-093

CAPACITORS

Mark	Symbol & Description	Part No.
	C30, C45 Ceramic (0.01/25V)	ACG-036
	C36	CCDCHO10C50
	C29	CCDCHO30C50
	C31	CCDCH150J50
	C32	CCDCH330J50
	C34	CCDSH120J50
	C35	CCDSH330J50
	C33	CCDTHO80D50

RESISTORS

Mark	Symbol & Description	Part No.
	All resistors	RD1/8PM☐☐☐J

6. ADJUSTMENT

PREPARATIONS

- Short TP10 and TP11, then remove that short.
- Set TC1 – TC3 and VR102 to their mechanical centers.

FM tuner adjustment

- Connect as shown in Fig. 6-1.
- Set the function to FM.

Step No.	FM SG (1 kHz ±75 kHz dev.)			F-737 reception frequency display	Adjustment	
	Frequency (MHz)	Modulation	Level (dBμ)		Location	Specification
1	–	–	–	108MHz	L3	Adjust so that the voltage between TP20 and ground is 23.5 ±0.1 V.
2	–	–	–	87.5 MHz	–	Confirm that the voltage between TP20 and ground is 8.0±0.5V.
3	90.0 MHz	–	Weak input	90.0 MHz NARROW	L1, T1, T4 (*1)	Adjust for the maximum voltage between TP18 and grownd. Repeat these two steps until both specifications are satisfied. (*2)
4	106.0 MHz	–	Weak input	106.0 MHz NARROW	TC1 – TC3	
5	–	OFF	60dBμ	–	T201	After setting the voltage between TP12 and TP15 to 0±100mV, check that the modulated signals are output from the output terminal.
6	–	ON	60 dBμ	–	–	
7	98.0 MHz	ON	80dBμ	98.0MHz WIDE	T2, VR202, T101	Adjust to minimize distortion.
8	98.0 MHz	–	Weak input	98.0 MHz NARROW	T101	Adjust for the maximum voltage between TP18 and ground.
9	98.0 MHz	–	60dBμ	98.0 MHz	T103	Adjust so that the voltage between TP16 and TP17 is 0 ±50 mV. (*3)
10	98.0 MHz	ON	60dBμ	98.0MHz	VR203	Adjust to minimize the output at TP14.
11	108 MHz	OFF	60dBμ	108.0 MHz	VR206	Adjust so that the output at TP21 is 38 kHz ±100 Hz
12	107MHz	PILOT ONLY	60dBμ	107MHz	VR207 L203	Adjust for the minimum carrier leak.
13	89 MHz (*4)	L-ONLY	80dBμ	89 MHz WIDE	VR201	Adjust to minimize distortion. (*5)
14	89 MHz	R-ONLY	80dBμ	89 MHz WIDE	VR204	Adjust for the maximum R → L separation.
15	89 MHz	L-ONLY	80dBμ	89 MHz WIDE	VR205	Adjust for the maximum L → R separation. (*6)
16	107 MHz	PILOT ONLY	60 dBμ	107 MHz WIDE	VR207	Adjust for the minimum carrier leak
17	89 MHz	STEREO	90dBμ	89 MHz WIDE	VR102	Adjust so that the voltage between TP18 and ground is 4.9 ±0.2V. (Make sure that this voltage is not over 5.2 V.)
18	98 MHz	MONO	18dBμ	98 MHz NARROW MUTING	VR101	Adjust so that the muting level mutes the sound. (Check that that muting works in Wide mode too.)
19	98.0 MHz	MONO	60dBμ	98.0 MHz WIDE REC	VR302	Adjust for −6 ±1.5 dB for the rated FM mono output.

(*1) The HE and HB models use L2 in place of T4.
(*2) The adjustments for the HEZ model end with Step 4.
(*3) Wait one minute after switching on the power, then carry out this adjustment.
(*4) Stereo modulation: Main 1 kHz L + R ±68.25 Hz
Pilot 19 kHz ±6.75 kHz
(*5) If the adjustment value is right at the limit of the ratings, finely adjust L203, but no more than 45°.
(*6) If the maximum point can not be obtained, cut R240.

AM tuner adjustment

- Connect as shown in Fig. 6-2.
- Set TC301 and TC302 to their mechanical centers.

Step No.	AM SG (400 kHz 30% modulation)		F-737 reception frequency display	Adjustment	
	Frequency (kHz)	Level (dBμ)		Location	Specification
1	–	–	531 kHz	L301	Adjust so that the voltage between TP20 and ground is 2.0 ±0.2V.
2	–	–	1602 kHz	TC301	Adjust so that the voltage between TP20 and ground is 16.0 ±0.2V.
3	603 kHz	Weak input	603 kHz	T301	Repeat Steps 3 and 4 to maximize the voltage between TP35 and ground.
4	1395 kHz	Weak input	1395 kHz	TC302	
5	999 kHz	60dBμ	999 kHz	VR301	Adjust so that the voltage between TP35 and ground is 3.5 ±0.2V.

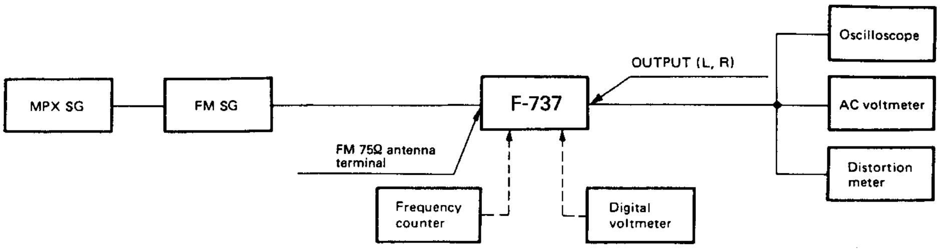

MPX SG
FM SG
F-737
OUTPUT (L, R)
Oscilloscope
AC voltmeter
Distortion meter
FM 75Ω antenna terminal
Frequency counter
Digital voltmeter

Fig. 6-1 FM Tuner Connection

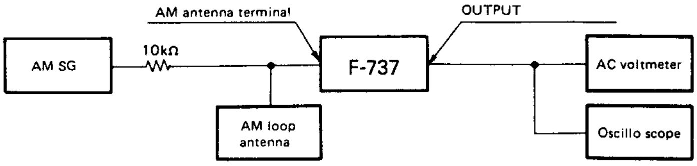

AM antenna terminal
OUTPUT
AM SG
10kΩ
F-737
AC voltmeter
AM loop antenna
Oscillo scope

Fig. 6-2 AM Tuner Connection

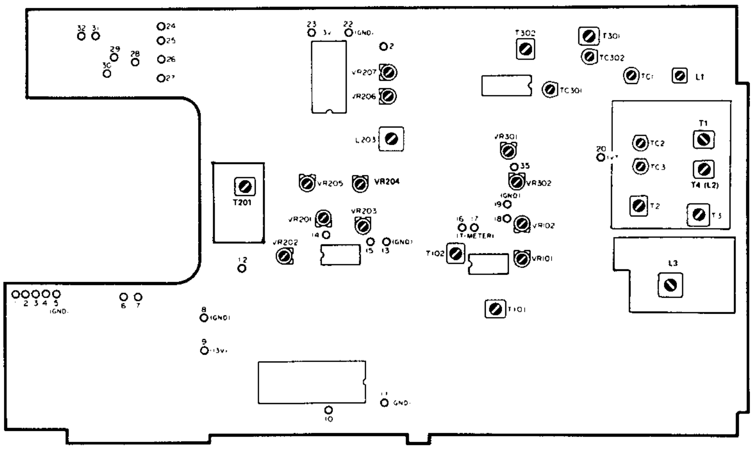

T302
T301
TC302
TC1
L1
TC301
VR207
VR206
L203
VR301
35
VR302
T1
TC2
TC3
T4 (L2)
T2
T3
T201
VR205
VR204
VR201
VR203
VR202
VR102
VR101
T102
T101
L3
(GND)
(T-METER)
(3V)
(13V)

Fig. 6-3 Adjusting point

6. RÉGLAGE

Préparatifs

- Court-circuiter TP10 et TP11, puis les décourt-circuiter.
- Régler TC1 à TC3 et VR102 sur leur centre mécanique.

Réglage du tuner FM

- Raccorder comme illustré à la Fig. 6-1.
- Régler la fonction sur FM.

Ordre	FM SG (1 kHz ±75 kHz dev.)			Affichage de fréquence de réception F-737	Réglage	
	Fréquence (MHz)	Modulation	Niveau (dBμ)		Emplacement	Spécification
1	—	—	—	108MHz	L3	Régler de sorte que la tension entre TP20 et la masse soit de 23,5 ±0,1 V.
2	—	—	—	87.5 MHz	—	Confirmer de sorte que la tension entre TP20 et la masse soit de 8,0±0,5V.
3	90,0 MHz	—	Entrée faible	90,0 MHz NARROW	L1, T1, T4 (*1)	Régler pour obtenir la tension maximale entre TP18 et la masse. Répéter ces deux étapes jusqu'àcce que les spécifications soient satisfaites. (*2)
4	106,0MHz	—	Entrée faible	106,0 MHz NARROW	TC1 — TC3	
5	—	OFF	60dBμ	—	T201	Après avoir réglé la tension entre TP12 et TP15 sur 0±100mV, vérifier que les signaux modulés sont sortis de la borne de sortie.
6	—	ON	60dBμ	—	—	
7	98,0 MHz	ON	80dBμ	98,0 MHz WIDE	T2, VR202, T101	Régler pour minimiser la distorsion.
8	98,0 MHz	—	Entrée faible	98,0 MHz NARROW	T101	Régler pour obtenir la tension maximale entre TP18 et la masse.
9	98,0 MHz	—	60dBμ	98,0 MHz	T103	Régler de sorte que la tension entre TP16 et TP17 soit de 0 ±50mV.
10	98,0 MHz	ON	60dBμ	98,0 MHz	VR203	Régler pour minimiser la sortie à TP14.
11	108 MHz	OFF	60dBμ	108,0 MHz	VR206	Régler de sorte que la sortie à TP21 soit de 38 kHz ±100 Hz
12	107MHz	PILOT ONLY	60dBμ	107MHz	VR207 L203	Régler pour obtenir une pertende la porteuse minimale.
13	89 MHz (*4)	L-ONLY	80dBμ	89 MHz WIDE	VR201	Régler pour minimiser la distorsion.
14	89 MHz	R-ONLY	80dBμ	89 MHz WIDE	VR204	Régler pour obtenir une séparation D → G maximale.
15	89 MHz	L-ONLY	80dBμ	89 MHz WIDE	VR205	Régler pour obtenir une séparation G → D maximale.
16	107 MHz	PILOT ONLY	60dBμ	107 MHz WIDE	VR207	Régler pour obtenir un minimum de perte de la porteuse.
17	89 MHz	STEREO	90 dBμ	89 MHz WIDE	VR102	Régler de sorte que la tension entre TP18 et la masse soit de 4,9 ±0,2 V (veiller que la tension ne dépasse pas 5,2 V).
18	98 MHz	MONO	18dBμ	98 MHz NARROW MUTING	VR101	Régler de sorte que le niveau de sourdine assourdisse le son. (vérifier que la fonction d'assourdissement est aussi opérationnelle en mode large).
19	98,0 MHz	MONO	60dBμ	98,0 MHz WIDE REC	VR302	Régler pour obtenir la sortie FM mono nominale de −6 ±1,5 dB

(*1) Les modèles HE et HB utilisent L2 au lieu de T4.

(*2) Les réglages pour le modèle HEZ finissent à l'étape 4.

(*3) Attendre une minute après la mise sous tension, puis procéder à ce réglage.

(*4) Modulation stéréo: Principale 1 kHz G + D ±68,25 Hz
Pilote 19 kHz ±6,75 kHz

(*5) Si la valeur du réglage est correcte à la limite des caractéristiques, procéder au réglage fin de L203, mais pas plus de 45°.

(*6) Si le point maximal ne peut être atteint, couper R240.

6. AJUSTE

Preparativos

- Cortocircuite TP10 y TP11, y después elimine el cortocircuito.
- Ponga TC1 a TC3 y VR102 en sus centros mecánicos.

Ajuste del sintonizador de FM

- Realice las conexiones mostradas en el Fig. 6-1.
- Ajuste la función a FM.

Orden	Señal de FM (1 kHz ±75 kHz dev.)			Visualizador de la frecuencia e recepción F-737	Ajuste	
	Frecuencia (MHz)	Modulacion	Nivel (dBμ)		Ubicación	Especificacions
1	—	—	—	108MHz	L3	Ajuste de forma que la tensión entre TP20 y masa sea de 23,5 ±0,1V.
2	—	—	—	87.5 MHz	—	Confirmar de forma que la tensión entre TP20 y a sa masa sea de 8,0±0,5V.
3	90,0 MHz	—	Entrada débil	90,0 MHz NARROW	L1, T1, T4 (*1)	Ajuste hasta obtener la tensión máxima entre TP18 y masa. Repita estos dos pasos hasta que se satisfagan ambas especificaciones. (*2)
4	106,0MHz	—	Entrada débil	106,0 MHz NARROW	TC1 — TC3	
5	—	OFF	60dBμ	—	T201	Después de ajustar la tensión entre TP12 y TP15 a 0±100mV, y compruebe si las señales moduladas salen a través del terminal de salida.
6	—	ON	60dBμ	—	—	
7	98,0 MHz	ON	80dBμ	Ajuste la distorsión al mínimo.	T2, VR202, T101	Ajuste la distorsión al mínimo.
8	98,0 MHz	—	Entrada débil	98,0 MHz NARROW	T101	Ajuste hasta obtener la tensión máxima entre TP18 y masa.
9	98,0 MHz	—	60dBμ	98,0 MHz	T103	Ajuste de forma que la tensión entre TP16 y TP17 sea de 0 ±50 mV. (*3)
10	98,0 MHz	ON	60dBμ	98,0 MHz	VR203	Ajuste hasta minimizar la salida de TP14.
11	108 MHz	OFF	60dBμ	108,0 MHz	VR206	Ajuste de forma que la salida de TP21 sea de 38 kHz ±100 Hz.
12	107MHz	PILOT ONLY	60dBμ	107MHz	VR207 L203	Ajuste hasta que la fuga de portadora sea minima.
13	89 MHz (*4)	L-ONLY	80dBμ	89 MHz WIDE	VR201	Ajuste hasta minimizar la distorsión. (*5)
14	89 MHz	R-ONLY	80dBμ	89 MHz WIDE	VR204	Ajuste hasta obtener la maxima separación R → L.
15	89 MHz	L-ONLY	80dBμ	89 MHz WIDE	VR205	Ajuste hasta obtener la máxima separación L → R. (*6)
16	107 MHz	PILOT ONLY	60dBμ	107 MHz WIDE	VR207	Ajuste hasta obtener la mínima fuga de portadora.
17	89 MHz	STEREO	90 dBμ	89 MHz WIDE	VR102	Ajuste de forma que la tensión entre TP18 y masa sea de 4,0 ±0,2V. (Asegúrese de que esta tensión no sea superior a 5,2 V.)
18	98 MHz	MONO	18dBμ	98 MHz NARROW MUTING	VR101	Ajuste de forma que el nivel de silenciamiento elimine el sonido. (Compruebe si el silenciamiento también trabaja en el modo amplio.)
19	98,0 MHz	MONO	60dBμ	98,0 MHz WIDE REC	VR302	Ajuste hasta obtener −6 ±1,5 dB con la salida monoaural nominal de FM.

(*1) Los modelos HE y HB emplean L2 en vez de T4.
(*2) Los ajustes para el modelo HEZ finalizan con el paso 4.
(*3) Espere un minuto después de conectar la alimentación, y a continuación realice este ajuste.
(*4) Modulación estéreo: Principal 1 kHz L + R ±68,25 Hz
Piloto 19 kHz ±6,75 kHz
(*5) Si el valor de ajuste está justamente en el límite de los valores, ajuste con precisión L203, pero no más de 45°.
(*6) Si no puede obtener el punto máximo, corte R240.

Réglage du tuner AM

- Raccorder comme illustré à la Fig. 6-2.
- Régler TC301 et TC302 sur leur centre mécanique.

Ordre	AM SG (400 kHz 30% modulation)		Affichage de fréquence de réception F-737	Réglage	
	Fréquence (kHz)	Niveau (dBμ)		Emplacement	Spécification
1	—	—	531 kHz	L301	Régler de sorte que la tension entre TP20 et la masse soit de 2,0 ±0,2V.
2	—	—	1602kHz	TC301	Régler de sorte que la tension entre TP20 et la masse soit de 16,0 ±0,2V.
3	603kHz	Entrée faible	603kHz	T301	Répéter les démarches 3 et 4 pour maximiser la tension entre TP35 et la masse.
4	1395 kHz	Entrée faible	1395 kHz	TC302	
5	999 kHz	60 dBμ	999 kHz	VR301	Régler de sorte que la tension entre TP35 et la masse soit de 3,5 ±0,2 V.

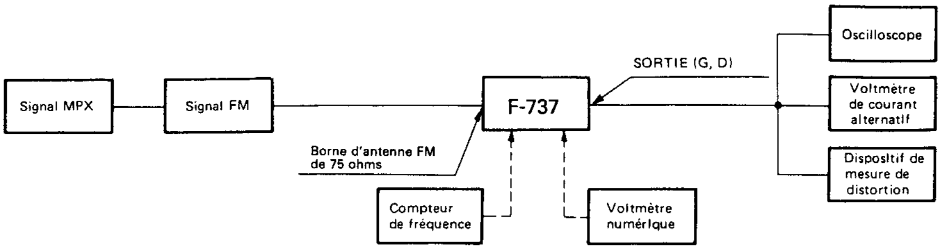

Signal MPX
Signal FM
Borne d'antenne FM de 75 ohms
F-737
SORTIE (G, D)
Oscilloscope
Voltmètre de courant alternatif
Dispositif de mesure de distortion
Compteur de fréquence
Voltmètre numérique

Fig. 6-1 Connexion du tuner FM

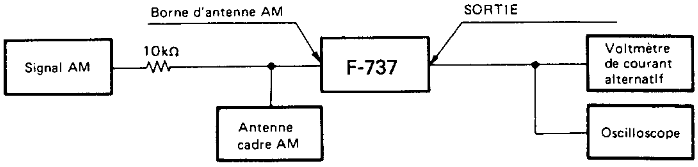

Borne d'antenne AM
SORTIE
Signal AM
10kΩ
F-737
Voltmètre de courant alternatif
Antenne cadre AM
Oscilloscope

Fig. 6-2 Connexion du tuner AM

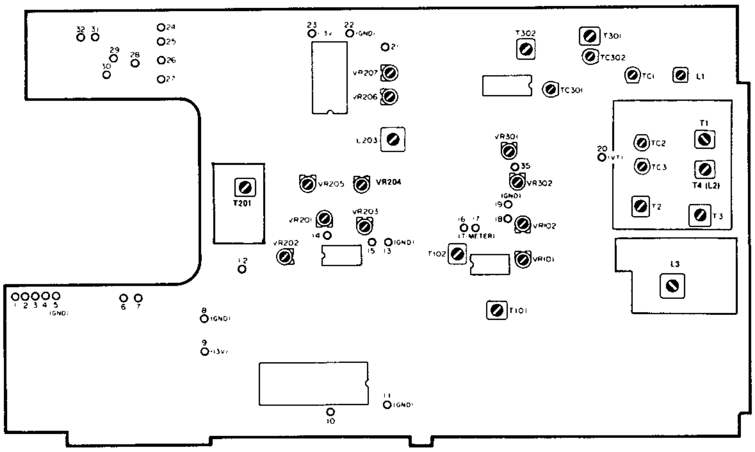

T302
T301
TC302
TC301
TC1
L1
TC2
TC3
T1
T4 (L2)
T2
T3
L3
VR207
VR206
L203
T201
VR205
VR204
VR201
VR203
VR202
VR301
35
VR302
(GND)
VR102
VR101
T102
T101
(T-METER)
20 (VT)
22 (GND)
23 (+3V)
8 (GND)
9 (+13V)
11 (GND)
10

Fig. 6-3 Points de Réglage

Ajuste del sintonizador de AM

- Realice las conexiones mostradas en la Fig. 6-2.
- Ponga TC301 y TC302 en sus centros mecánicos.

Orden	Señal de AM (400 kHz, modulación al 30%)		Visualizador de la frecuencia de recepción F-737	Ajuste	
	Frecuencia (kHz)	Nivel (dBμ)		Ubicación	Especificacions
1	—	—	531 kHz	L301	Ajuste de forma que la tensión entre TP20 y masa sea de 2,0 ±0,2 V.
2	—	—	1602kHz	TC301	Ajuste de forma que la tensión entre TP20 y masa sea de 2,0 ±0,2 V.
3	603kHz	Entrada débil	603kHz	T301	Repita los pasos 3 y 4 hasta aumentar al máximo la tensión entre TP35 y masa.
4	1395 kHz	Entrada débil	1395 kHz	TC302	
5	999 kHz	60 dBμ	999 kHz	VR301	Ajuste de forma que la tensión entre TP35 y masa sea de 3,5 ±0,2 V.

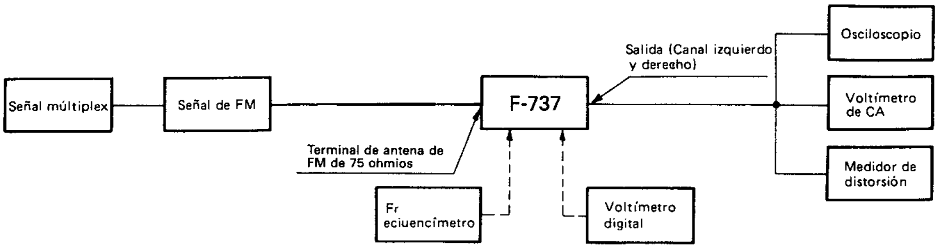

Señal múltiplex
Señal de FM
F-737
Terminal de antena de FM de 75 ohmios
Frecuencímetro
Voltímetro digital
Salida (Canal izquierdo y derecho)
Osciloscopio
Voltímetro de CA
Medidor de distorsión

Fig. 6-1 Conexiones del sintonizador de FM

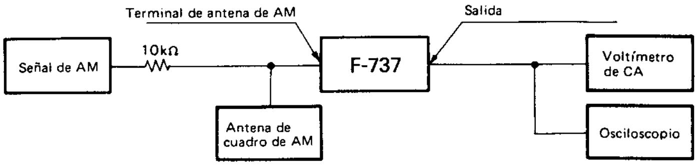

Terminal de antena de AM
Salida
Señal de AM
10kΩ
F-737
Antena de cuadro de AM
Voltímetro de CA
Osciloscopio

Fig. 6-2 Conexiones del sintonizador de AM

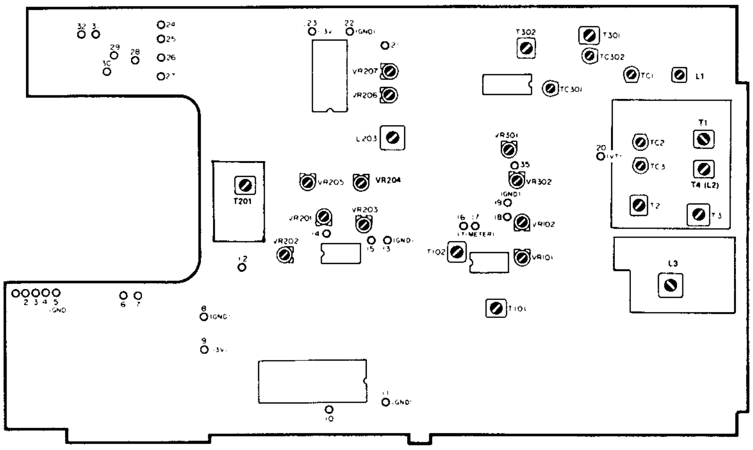

32
29
28
3C
24
25
26
23
3V
22
GND
VR207
VR206
L203
T201
VR205
VR204
VR201
VR203
VR202
4
5
3
GND
2
2 3 4 5
GND
6 7
8
GND
9
3V
10
11
GND
T302
T301
TC302
TC301
TC1
L1
VR301
35
VR302
GND
19
18
VR102
16 17
T-METER
T102
VR101
T101
20
T1
TC2
TC3
T4 (L2)
T2
T3
L3

Fig. 6-3 Puntos de Ajuste

7. FOR F-737/HE, HB AND F-737-S/HEZ TYPES

CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

F-737-S/HEZ, F-737/HE and F-737/HB types are the same as the F-737/HEZ type with the exception of the following sections.

Mark	Symbol & Description	Part No.				Remarks
		F-737/HEZ	F-737-S/HEZ	F-737/HE	F-737/HB	
	Power knob (Power)	AAD1168	AAD1169	AAD1168	AAD1168	
	Aluminum sash	AAH1034	AAH1035	AAH1034	AAH1034	
	Panel base assembly	AMB1220	AMB1328	AMB1220	AMB1220	
	Front panel	ANB1178	ANB1179	ANB1178	ANB1178	
	Bonnet case	ANE1083	ANE1109	ANE1083	ANE1083	
	Screw (For pin jack)	ABA1047	ABA1047	.....	.....	
	Screw (For bonnet case)	FBT40P080FZK	FBT40P080FCR	FBT40P080FZK	FBT40P080FZK	
⚠	AC power cord	ADG1010	ADG1010	ADG1021	ADG-063	
	Tuner assembly	AWZ1806	AWZ1806	AWZ1807	AWZ1807	
	Packing case	AHD1386	AHD1387	AHD1386	AHD1386	
	Barrier	...	...	...	Non supply	
	Operating instructions (German)	ARC1087	ARC1087	.....	.....	
	Operating instructions (English)	.....	.....	.....	ARB1114	
	Operating instructions (English/French/German/Italian /Dutch/Swedish/Spanish/ Portuguese)	.....	.....	ARE1084	.....	

Tuner Assembly (AWZ1807) *Note : For the schematic diagram and P.C. board patterns, refer to pages 7 – 16.*

The Tuner assembly (AWZ1807) is the same as the Tuner assembly (AWZ1806) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ1806	AWZ1807	
	C3	CCMCH150J50	CKDYX103M25	
	C4	CCMCH150J50	...	
	C41	CDKYF102Z50	...	
	C263, C264	CKDYF103Z50	...	
	C265, C266	CQSXA152J160	...	
	F102, F105, F107	ATF-118	ATF-139	
	F106, F108, F109	...	ATF-139	
	L2	...	ATC-205	
	L103, L104, L106 – L109	...	LAU3R9K	
	L204, L205	ATH-049	...	
	L206, L207	ATH-050	...	
	R33	RD1/8PM472J	...	
	R105, R113, R114	RD1/8PM102J	RD1/8PM561J	
	R116	RD1/8PM202J	RD1/8PM102J	
	R118, R146, R147	...	RD/8PM181J	
	R148	...	RD1/8PM471J	
	T4	ATC-257	...	